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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/259,420	02/26/1999	TYLER R. DAWSON	834DAW	5276

7590 03/19/2002

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EXAMINER

MALCOLM, TOMLYNE A

ART UNIT	PAPER NUMBER
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3629

DATE MAILED: 03/19/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

Application No.

09/259,420

Applicant(s)

DAWSON, TYLER R.

Examiner

Tomlyne A Malcolm

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☐ Responsive to communication(s) filed on \_\_\_\_.
- 2a) ☒ This action is FINAL. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 1-33, 34, 36, 38-43 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 1-20 and 31-34 is/are allowed.
- 6) ☒ Claim(s) 21-30, 36, 38 and 43 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on \_\_\_\_ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

### Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

### Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) \_\_\_\_.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). \_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_

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## **DETAILED ACTION**

### ***Drawings***

The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the " shaft" must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

### ***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 21, 22,23,25, 30,36,38 and 43 are rejected under 35 U.S.C. 102(b) as being anticipated by Siner, U.S. Patent No. 5,762,439.

In regards to claim 21, Siner discloses a hub comprising a first opening extending axially into the hub, the first opening having an inner surface , the first opening having a first end and a second end ( see Fig.5); an integral stop (22) extending across only a

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portion of the first end , a mounting surface ( outside area above 26) having a position for mounting the pulley, gear or wheel on the hub .

In regards to claim 22, means integral (26) with the inner surface of the first opening for preventing relative rotation of the hub on the shaft when the hub is disposed on the shaft.

In regards to claim 23, means integral with the inner surface comprises one or more flat surfaces.

In regards to claim 25, means integral with the inner surface comprising one or more splines ( column 2, lines 48-49).

In regards to claim 30, the hub having an outer peripheral surface portion concentric with the first opening, the outer peripheral surface portion having a splined form ( Fig.5).

In regards to claim 36, a hub comprising a mounting surface ( outside area above 26) ; a first face and a second face and an opening extending from the first face toward the second face, the opening for receiving the shaft , the opening comprising an inner surface extending parallel to an axis of the opening; an integral key (26) extending at least part of the way along the inner surface between the first face and the second face; an integral stop (22) extending across a portion of one of the first and second faces of the opening.

In regards to 38, the integral key extends substantially the entire length of the opening ( see Fig.5).

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In regards to claim 43, the method of fabricating a hub for mounting a device on a shaft, the shaft having a shaft end, is inherent to the structure discussed above.

***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 24,26-29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Siner , as discussed above.

In regards to claim 24, Siner lacks the teaching of the first opening having a generally polygonal cross-section. It would have been an obvious matter of design choice to make the first opening whatever form or shape was desired or expedient. A change in form or shape is generally recognized as being within the level of ordinary skill in the art, absent any showing of unexpected results.

In regards to claim 26, 27, 28 and 29, Siner lacks the teaching of the hubs' outer peripheral surface having a right circular cylindrical form; a right elliptical cylindrical form; a pyramidal form or a conical form. It would have been an obvious matter of design choice to make the outer peripheral surface of the hub whatever form or shape was

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desired or expedient. A change in form or shape is generally recognized as being within the level of ordinary skill in the art, absent any showing of unexpected results.

***Allowable Subject Matter***

Claims 1-20,31-33-34 and 35 are allowed.

Note: The claims have been interpreted as being drawn to the combination of the hub, shaft and pulley , gear or wheel.

***Conclusion***

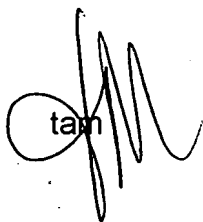
**THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tomlyne A Malcolm whose telephone number is 703-305-1566. The examiner can normally be reached on Monday through Thursday from 7:30 am to 6:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lynne H Browne, can be reached on (703) 308-1159. The fax phone number for the organization where this application or proceeding is assigned is 703-305-3597.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-2168.



tan



**Lynne H. Browne**  
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**Technology Center 3600**